IN THE CLAIMS:

Set forth below in ascending order, with status identifiers, is a complete listing of all claims currently under examination. Changes to any amended claims are indicated by strikethrough and underlining. This listing also reflects any cancellation and/or addition of claims.

1. – 6. (Canceled)

7. (Currently Amended)   A processor-readable medium comprising code representing instructions to cause a processor to:

analyze information [associated with] used to define a first path, the information [associated with] used to define the first path including a plurality of data elements, each data element from the plurality of data elements associated with the first path including a spatial value and a true value [spatial values associated with the first path, each spatial value from the plurality of spatial values associated with the first path being uniquely associated with a corresponding time value], each spatial value [from the plurality of spatial values] associated with the first path indicating a position of an object associated with the first path at a time associated with the corresponding time value;

analyze information [associated with] used to define a second path, the information [associated with] used to define the second path including a second plurality of data elements each data element from said second plurality of data elements associated with the second path including a spatial value and a time value [spatial values associated with the second path, each spatial value from the plurality of spatial values associated with the second path being uniquely associated with a corresponding time value], each spatial value [from the plurality of spatial values] associated with the second path indicating a position of an object associated with the second path at a time associated with the corresponding time value, the [plurality of] spatial values [associated with] used to define the second path including spatial values not included in the information [associated with] used to define the first path; and

determine, at least partially based on the analysis of the information [associated with] used to define the first path and the analysis of the information [associated with] used to define the second path, if the object associated with the first path and the object associated with the second path are the same object.

8. (Currently Amended)   The processor-readable medium of claim 7, further comprising code representing instructions to cause a processor to:

output information [associated with] used to define a third path, if it is determined that the object associated with the first path and the object associated with the second path are the same object, the information [associated with] used to define the third path including the plurality of spatial values [associated with] used to define the first path and at least a portion of the plurality of spatial values [associated with] used to define the second path thereby creating a path representing a limiting of the first and second paths.

9. (Currently Amended)   The processor-readable medium of claim 7, further comprising code representing instructions to cause a processor to:

output information associated with a third path, if it is determined that the object associated with the first path and the object associated with the second path are the same object, the information associated with the third path including the plurality of spatial values [associated with] used to define the first path and any spatial value from the plurality of spatial values [associated with] used to define the second path that is not substantially similar to a spatial value from the plurality of spatial values associated with the first path.

10. (Currently Amended)   The processor-readable medium of claim 7, wherein the information [associated with] used to define the first path is information from a video image, each spatial value from the plurality of spatial values [associated with] used to define the first path being a spatial value of the object associated with the first path within the video image.

11. (Currently Amended) The processor-readable medium of claim 7, wherein the information [associated with] used to define the first path is information from a video image, each spatial value from the plurality of spatial values [associated with] used to define the first path being a spatial value of the object associated with the first path within a real-world coordinate system.

12. (Currently Amended) The processor-readable medium of claim 7, wherein the information [associated with] used to define the first path is information from a video image associated with the first path, each spatial value [from the plurality of spatial values associated with] used to define the first path being a spatial value within the video image [associated with] used to define the first object, the information associated with the second path being information from a video image associated with the second path, each spatial value [from the plurality of spatial values associated with] used to define the second path being a spatial value within the video image.

13. (Currently Amended) The processor-readable medium of claim 12, further comprising code representing instructions to cause a processor to:

convert each spatial value [from the plurality of spatial values associated with] used to define the first path to a spatial value within a universal coordinate system; and

convert each spatial value [from the plurality of spatial values associated with] used to define the second path to a spatial value within the universal coordinate system.

14. (Previously presented) The processor-readable medium of claim 12, further comprising code representing instructions to cause a processor to:

convert each time value associated with the first path to a time value within a universal coordinate system; and

convert each time value associated with the second path to a time value within the universal coordinate system.

15. (Currently Amended)   The processor-readable medium of claim 7, further comprising code representing instructions to cause a processor to:

analyze a relationship between the first path and a region of interest, the region of interest being one of an exclusion region, a break region, and a warping region, the code representing instructions to cause a processor to [determine being configured to determine if the object associated with the first path and the object associated with the second path are the same object at least partially based on] link the first path and the second path when the relationship between the first path and the region of interest satisfies a predetermined condition.

16. (Currently Amended)   The processor-readable medium of claim 7, further comprising code representing instructions to cause a processor to:

analyze a relationship between the first path and a region of interest, the region of interest being one of an exclusion region, a break region, and a warping region; and

analyze a relationship between the second path and the region of interest, the code representing instructions to cause a processor to determine being configured to determine if the object associated with the first path and the object associated with the second path are the same object at least partially based on the relationship between the first path and the region of interest and the relationship of the second path and the region of interest wherein the processor links the first and second path when it is determined that the paths relate to the same object.

17. (Previously presented)   The processor-readable medium of claim 7, further comprising code representing instructions to cause a processor to:

determine a confidence value that the object associated with the first path and the object associated with the second path are the same object, the code representing instructions to cause a processor to determine if the object associated with the first path and the object associated with the second path are the same object being configured to make a determination at least partially based on the confidence value.

18. (Currently Amended)   The processor-readable medium of claim 7, wherein the code representing instructions to cause a processor to determine [is configured to determine] if the object associated with the first path and the object associated with the second path are the same object includes instructions to determine at least [partially based on] whether an end spatial value of the first path is within a predetermined distance of a start spatial value of the second path, [the] an end spatial value of the first path having a corresponding time value that is chronologically last of all time values uniquely associated with the plurality of spatial values [associated with] used to define the first path, [the] a start spatial value of the second path having a corresponding time value that is chronologically first of all time values uniquely associated with the plurality of spatial values [associated with] used to define the second path.

19. (Currently Amended)   The processor-readable medium of claim 7, wherein the code representing instructions to cause a processor to determine [is configured to determine] if the object associated with the first path and the object associated with the second path are the same object includes instructions to determine at least [partially based on] whether a time value corresponding to an end spatial value of the first path is within a predetermined time of a time value corresponding to a start spatial value of the second path, the end spatial value of the first path having a corresponding time value that is chronologically last of all time values uniquely associated with the plurality of spatial values [associated with] used to define the first path, the start spatial value of the second path having a corresponding time value that is chronologically first of all time values uniquely associated with the plurality of spatial values [associated with] used to define the second path.

20. (Previously presented)   A processor-readable medium comprising code representing instructions to cause a processor to:

receive information associated with a plurality of paths, each path from the plurality of paths representing movement of an object defined over time;

iteratively determine, for each path from the plurality of paths, whether that path
can be linked to another path from the plurality of paths at least partially based on
predetermined linking rules; and

resolve conflicts associated with linking a path to another path based on
predetermined conflict-resolution rules, if any conflicts exist.

21. (Previously presented)   The processor-readable medium of claim 20,
wherein the code representing instructions to cause a processor to iteratively determine is
configured to remove paths within larger paths.

22. (Previously presented)   The processor-readable medium of claim 20,
wherein each path from the plurality of paths includes a plurality of data elements, each
data element from the plurality of data elements associated with a path from the plurality
of paths including a spatial value and a time value, the code representing instructions to
cause a processor to iteratively determine being configured to extract and store at least
one data element associated with each path from the plurality of paths, the at least one
data element including at least one of a start spatial value, an end spatial value, a length
between a start spatial value and an end spatial value.

23. (Previously presented)   The processor-readable medium of claim 22,
wherein the code representing instructions to cause a processor to iteratively determine is
configured to sort the plurality of paths according to a start time value associated with the
start spatial value for each path and an end time value associated with the end spatial
value for each path, the code representing instructions to cause a processor to iteratively
determine being further configured to iteratively compare the each path from the plurality
of paths sorted according to the start time value of that path with each path from the
plurality of paths sorted according to the end time value.

24. (Previously presented)   The processor-readable medium of claim 20,
wherein each path from the plurality of paths includes a plurality of data elements, each

data element from the plurality of data elements associated with a path from the plurality of paths including a spatial value and a time value, the code representing instructions to cause a processor to resolve conflicts being configured to determine if a distance between an end spatial value of a first path from the plurality of paths and a start spatial value of a second path from the plurality of paths is within a predetermined threshold.

25. (Previously presented)   The processor-readable medium of claim 20, wherein each path from the plurality of paths includes a plurality of data elements, each data element from the plurality of data elements associated with a path from the plurality of paths including a spatial value and a time value, the code representing instructions to cause a processor to resolve conflicts being configured to determine if a time between an end time value of a first path from the plurality of paths and a start time value of a second path from the plurality of paths is within a predetermined threshold.

26. (Currently Amended)   An apparatus, comprising:
a first image capture device configured to capture a plurality of images associated with a first physical area over a time period;
a second image capture device configured to capture a plurality of images associated with a second physical area over the time period, the second physical area being substantially different from the first physical area;
a processor in communication with the first image capture device and the second image capture device, the processor being configured to extract a plurality of sets of spatial values and corresponding time values associated with the first physical area from the images associated with the first physical area, the processor being configured to extract a plurality of sets of spatial values and corresponding time values associated with the second physical area from the images associated with the second physical area, each set from the plurality of sets of spatial values and corresponding time values associated with the first physical area being [associated with] used to define a path of an object within the first physical area, each set from the plurality of sets of spatial values and corresponding time values associated with the second physical area being [associated

with] being used to define a path of an object within the second physical area, the processor being configured to analyze the plurality of sets of spatial values and corresponding time values associated with the first physical area and the plurality of sets of spatial values and corresponding time values associated with the second physical area, the processor being configured to link the path of the object within the first physical area and the path of the object within the second area if the processor determines, at least partially based on the analysis of the set of spatial values and corresponding time values associated with the object within the first physical area and the set of spatial values and corresponding time values associated with the object within the second physical area, that the object within the first physical area and the object within the second physical area are the same object.